

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : NAGAMITSU KATSUJI

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(72)Inventor : NAGAMITSU KATSUJI

(54) HEALTH FOOD

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a safe health food containing multi-functional substances (SOD).

SOLUTION: This health food is obtained by extracting one or more kinds of plants selected from between two kinds of *Ligusticum acutilobum* and *Angelica keiskei* belonging to the family Umbelliferae, *Aloe arborescens* Mill. var. *nat* belonging to the family Liliaceae, *Hypericum erectum* belonging to the family Hypericaceae, *Houttuynia cordata* belonging to the family Saururaceae, *Morus alba* belonging to the family Moraceae, *Impatiens balsamina* belonging to the family Balsaminaceae, *Acorus gramineus* belonging to the family Araceae, and *Eriobotrya japonica* belonging to the family Rosaceae with an alcohol, adding sugar to the extract and subsequently separating the supernatant from the generated precipitates.

CLAIMS

[Claim(s)]

[Claim 1] the Japan angericae radix of the department of ****, MIYAMATOUKI, Angelica keiskei, and the KIDACHI aloe of the department of **** -- ** -- only -- the health food containing the various functions nature matter (SOD) which ***** separating into the precipitate which added and generated sugar, and supernatant liquid after it hangs and alcohol extracts one kind of the balsam of the department of that being right, Acorus gramineus of the department of a taro, and the loquat of Rosaceae, or two kinds or more in **, the St. John's wort of the department of that being right, the Houttuynia of the department of **** which moves aside, department mulberry of a hoe, and.

[Claim 2] Health food according to claim 1 which is various functions nature polysaccharide which is characterized by the various functions nature matter separating into this precipitate and supernatant liquid, and coming to collect, and which has anti-inflammatory activity, an antioxidation operation, an antifungal action, a blood-pressure adjustment operation, an analgesic action depuration operation, a diuretic effect, an adjustment operation of women's diseases, a detoxifying effect, and/or an anticancer operation.

[Claim 3] Health food according to claim 2 characterized by for the various functions nature matter processing this precipitate, and considering as a ** 1 strike-like object, dilution, or a dry matter.

[Claim 4] Health food according to claim 1 to 3 characterized by having **** of the detoxifying effect and antibacterial action which are characterized by for the various functions nature matter processing this supernatant liquid, and containing naphthoquinones and flavones, a hypertension prevention operation, a diuretic effect, a hyperglycemic action, a hemostatic action, an analgesic action, a blood-pressure adjustment operation, a women's-diseases adjustment operation, tonsillitis, and cold, palsy, a prevention operation of rheumatism, and an anti-inflammatory activity **** antioxidation operation.

[Claim 5] Health food according to claim 1 to 4 characterized by using a methanol, ethanol, and **** propanol as alcohol.

[Claim 6] Health food according to claim 1 to 5 which ***** adding so that alcoholic concentration may become 30% - 60%.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention The Japan angericae radix, MIYAMATOUKI, Angelica keiskei, a KIDACHI aloe, a St. John's wort, Houttuynia, a mulberry, a balsam, Acorus gramineus, and a loquat -- since -- the health and the cosmetics improver which has a SOD (superoxide DISU mutase) operation by the approach of extracting the various functions nature matter -- It is related with health food or a health drink (it is called "health food" for short below) suitable as a blood-pressure inhibitor **** constipation amelioration agent. Various kinds of illnesses, illness compare and according to ** and a blood-flow failure (it myocardium-****) from which active oxygen becomes a cause especially It is related with the health food widely used for the therapy of adult diseases, such as cerebral apoplexy, hypertension, menstrual pain, stiffness in shoulder, neuralgia, abdominal pain, and a hangover, internal medicine diseases (cancer, a nephritis, hepatitis, diabetes mellitus, etc.), cosmetics, dermatoses (permeating a freckle, surface deterioration, oversensitivity to cold, constipation, a wrinkling, atopic dermatitis, etc.), etc., amelioration, etc.

[0002]

[Description of the Prior Art] Although oxygen is generally indispensable for a life object Although it is returned by metal catalysts, such as iron and copper, and the active oxygen called the super oxide which may occasionally do damage to a living body, and is generated by the metabolic turnover turns into a hydrogen peroxide, and reactivity is still higher in active oxygen and it becomes hydroxy TEJIKARU which does damage to a living body It not only generates the peroxy lipid which this molecule cuts DNA, and oxidizes a lipid, and is made into aging promotion ****, but Usually, although eliminated by the oxygen called SOD in the living body, as a result of this SOD's decreasing by stress, aging, etc., PARANSU collapses in the living body and peroxy lipid increases by active oxygen. There was un-arranging used as the cause which myocardial infarction, arteriosclerosis, diabetes mellitus, cancer, cerebral apoplexy, a cataract, stiffness in shoulder, oversensitivity to cold, a stain, a freckle, a wrinkling, etc. produce.

[0003] There are anti-oxidants, such as BHA (PUCHIRU hydroxyanisole) of a chemical composition and BHT (butylhydroxytoluene), to cancel such un-arranging. Moreover, superoxide dace TAZE (SOD) which is an enzyme in the living body as active oxygen matter is developed.

[0004]

[Problem(s) to be Solved by the Invention] It is safe, and if there is food with a SOD operation (not only the operation that decreases active oxygen concentration but the various prophylaxis considered to originate in this and to be generated and an operation of an improvement are included with a SOD operation.), it is very large for people's health and cosmetics. Especially in the situation which there is much stress and many illnesses have generated like recent years especially, the need is large.

[0005] Therefore, it is safe and this invention aims at offering the health food containing the various functions nature matter (SOD).

[0006]

[Means for Solving the Problem] The thing using the fermentation object as the health, cosmetics improvement, etc. which has this SOD activity with this invention person safer than the above viewpoint. discovers whether there is nothing and that what was made to carry out an alcoholic extract using said department of Hara, and was filtered about ***** when many things were examined wholeheartedly can attain that purpose, and comes to complete this invention.

[0007] In this invention Namely, the Japan angericae radix, MIYAMATOUKI, Angelica keiskei, A KIDACHI aloe, OTOKIRISOU, DOKUTAMI, a mulberry, a balsam, Acorus gramineus, a loquat -- since -- the health and the cosmetics improver which has a SOD (superoxide DISU mutase) operation by the approach of extracting the various functions nature matter -- The component which has a use as a blood-pressure inhibitor **** constipation amelioration agent is extracted. Especially Various kinds of illnesses from which active oxygen serves as a original enclosure, for example, illness <myocardium

**** by the blood-flow failure, It is widely used for the therapy of adult diseases, such as cerebral apoplexy, hypertension, menstrual pain, stiffness in shoulder, neuralgia, low back pain, and a hangover, internal medicine diseases (cancer, a nephritis, hepatitis, diabetes mellitus, etc.), cosmetics, dermatoses (permeating a freckle, surface deterioration, oversensitivity to cold, constipation, a wrinkling, atopic dermatitis, etc.), etc., amelioration, etc.

[0008] Especially the health and the cosmetics improver that has a SOD operation of this invention The Japan angelicae radix of the department of ****, MIYAMATOUKI, Angelica keiskei, the KIDACHI aloe of the department of ****, ** -- only -- the St. John's wort of the department of that being right, the Houltuynia of the department of **** which moves aside, and the mulberry of the department of a hoe -- after it hangs and alcohol extracts one kind of the balsam of the department of that being right, Acorus gramineus of the department of a taro, and the loquat of Rosaceae, or two kinds or more in ** By separating into the precipitate and supernatant liquid which added and generated sugar, the various functions nature matter (SOD) is extracted and it carries out to the health food containing this, and a health drink, i.e., health food.

[0009] the Japan angelicae radix of the department of ****, MIYAMATOUKI, Angelica keiskei, and the KIDACHI aloe of the department of **** -- ** -- only -- the St. John's wort of the department of that being right, the Houltuynia of the department of **** which moves aside, and the mulberry of the department of a hoe -- it can hang, a methanol, ethanol, ethyl acetate etc. can be extracted from one kind of the balsam the department of that being right, Acorus gramineus of the department of a taro, and the loquat of Rosaceae, or two kinds as a solvent in ** (especially a methanol, ethanol), and concentration of an extract component can be made into about 30 - 50 % of the weight

[0010] Moreover, the component which carried out in this way and was extracted can be used for a constipation amelioration agent besides health and a cosmetics improver. The "flavonoid" contained in an extract component is a compound group which is widely distributed over the plant kingdom and two phenyl groups have combined on both sides of a pyran ring or three carbon atoms of the structure near it and which consists of the so-called C6-C3-C6 carbon frame. And the blending ratio of coal of this flavonoid can be made into 0.1 - 7 weight section extent to the fermented mash 100 weight section (for example, when extractives concentration is 40 - 50 % of the weight). When this cannot fully expect under in the 0.1 weight section and the effectiveness exceeds 7 weight sections, it is because drinking in taste becomes ****.

[0011] In the above-mentioned extract component, this can be made into a base about a potassium, sodium, an arginine, an ornithine, a lysine, a histidine, a glucamine, and monoethanolamine. Moreover, PH usually uses the base which is six to about eight from a FUITON acid showing acidity. Although the water-soluble existence of this base does not ask, since it is common for a water-soluble thing to be desirable since health, a cosmetics improver, etc. are used as a water solution in many cases, a water-soluble thing is desirable. Moreover, for those salts, when it is mostly contained in the above-mentioned fermented mash and converts from the Lynn concentration, a phytic acid equivalent object is 6 - 7 weight **** rare ***** to this residue-on-evaporation 100 weight section. Therefore, the thing and idea ** from which effectiveness equivalent to the above is certainly acquired even if it contains the extract extractives of the specified quantity in phytic acid etc.

[0012] When the vegetation used in order to extract the above-mentioned component in this invention is described, it is the Japan angelicae radix (common-name angelicae radix) (Angelica) (department of ****).

[Distribution] The perennial herbaceous plant of the fragrance ****(ed) by the house as medical use, [gestalt] height of grass of 60-90cm. The stem which carries out hyperplasy of the root carries out erection branching, and, for a petiole, the cusp, *****, and a flower season are in August - September. the [medicinal partial] root (angelicae radix (angelicae radix)) root which pickles many flowers with small white in the compound umbel of the branch point -- around November -- after ***** and washing in cold water -- Japanese -- or it carries out for **(ing) -- or the time of half-desiccation -- ***** (ing) -- Japanese -- it carries out for **(ing).

[Component] Vitamins, such as a nicotinic acid besides the bergaptene of rig SUCHIRAIDO of essential

oil, a subroll, n-butylidene free-wheel-plate RAIDO, n-butyl free-wheel-plate RAIDO, and BUROKU marine **, the faltarindiol of poly ASETSUREN, FUERUKARINORU, and beta sitosterol, vitamin B12, and a folic acid, are included in a root.

[Drug effect and pharmacology] Essential oil of angericae radix shows the telangiectasia and an antipyretic action, water extractives control blood vessel permeability, and it is used for anemia, abdominal pain, irregular menstruation, menstrual pain, etc. as sorrowfulness and killing with the operation which lowers intraocular pressure and blood pressure, depuration, and tonic, and also they may use a leaf for the charge of a bath.

[Usage] To menstrual pain, 500ml of water is added and brewed to the desiccation root daily dose 5-10g, and it warms and takes in 3 steps. In Chinese medicine, the ** agent is carried out to much formulas as the leading role of women's-diseases medicine. In addition, in China, it is KARATOUKIA of a close relationship. sinense(Oliv.) Diels It is grown in Sichuan, Kansu, Yunnan, etc. and is imported by Japan.

[0013] MIYAMATOUKI (Angelica) (department of ****)

[Distribution] Perennial herbaceous plant which grows in Iwagami of distribution and a mountain from the north of Honshu CHUBU ENGINEERING CORPORATION in Hokkaido.

[Gestalt] A root is thick at the shape of a burdock, and a stem has a scent strong against the height 20-50cm entire plant. A leaf is ** (ed) three times further one to twice by 3 appearance compound leaf. A flower season is in July to August. Compound umbel is built and a flower with many small white colors is pickled at the time of a stem.

[Medicinal part] They are remaining as it is or the thing parboiled and dried about a root (half-** (angericae radix)) root.

[Component] Essential-oil **** bergaptene, cane sugar, etc. which use free-wheel-plate RAIDO, such as butylidene free-wheel-plate RAIDO, butyl free-wheel-plate RAIDO, and rig SUCHIRAIDO, as a principal component are contained.

[Drug effect] From ancient times, with the crude drug of harmful Chinese medicine, it is used as depuration, killing, and tonic and the object for prizes is carried out to especially many ** of women's diseases. Among the people, it is used for the department of a bath, the chilblain, irregular menstruation, etc.

[Usage] At a five to 10 g root, 500ml of water is added to women's diseases and others, and it warms at them, and it divides into a ter die and takes. A leaf is washed with the decoction of a leaf to the charge of a bath, and the chilblain. It parches, after dipping a root in vinegar at abdominal pain and irregular menstruation, and Corydalis tuber and carthami flos are used as tales doses, in addition powder, and it takes in alcohol. In addition, angericae radix is blended with many Chinese medicine formulas including angericae radix paeoniae radix powder. [Others] In China, it is KARATOUKI A.sinensis about the origin of angericae radix. Although it is referred to as Diels and produces to Sichuan, Kansu, and Yunnan, it does not produce in Japan. Moreover, although the angericae radix from China is called the Tang angericae radix, ring ON is not carried out to Japan.

[0014] Angelica keiskei (Angelica) (department of ****)

[Distribution] Strong perennial herbaceous plant which grows in the warm seashore district in the Honshu Kanto district, Izu Peninsula, Izu 7 island, and Kii Peninsula.

[Gestalt] 80 to 120 cm height of grass. A rhizome is thickly short. Hyperplasy of the root is carried out for a long time. A stem stands straight and is branched thickly in the upper part. A leaf **** a 3 Dewa-like compound leaf and a leaflet two to three times twice, elasticity and a split are an ellipse form or an ovoid a little thickly, and it is five to 10 cm die length. A flower season is in July to September. Many light yellow white flowers are attached to the compound umbel at the time of a stem.

[Medicinal part] Leaf (**** <KANSOU>). spring -- 1 summer -- a leaf -- collecting -- light -- washing in cold water -- water -- cutting -- a hand -- fine -- tearing -- 2 -- 1 -- 3 day room day -- after carrying out for drying, you may make it dry in the shade and it is made to dry

[Component] The luteolin-7-glucoside of flavonoid and iso GUERU cetin are included in a leaf, and an ANGU lysine, bergaptene, xantho toxin, angelic acid, PUSORAREN, the ISOPU psoralen,

KORUMBIANAJIN, etc. are included in a root.

[Drug effect and pharmacology] Iso GUERU citrin is contained in the yellow juice which will come out if a stem, a leaf, etc. are cut, the capillary potentiation is in this component under urination and **, and it is used as urination and a hypertension prophylactic under **.

[Usage] It is good to fill the 20 to 30 g desiccation leaf daily dose with boiling water, or to brew by the soil bottle to hypertensive prevention, and for tea to drink comparatively to it. Moreover, a crimp may make green soup and you may also drink a raw leaf. In this case, it limits to 100ml per day.

[Others] The verdure at the beginning of spring on which gloss does not disappear yet is taken, and it is made edible. It boils and dips and is made an object and dressed dishes. It is better to cook lightly, although there is a characteristic scent and bitterness occurs a little. Propagation is based on a seedling and slip. since the property is robust -- ** -- another cautions are also unnecessary and cultivation is very easy.

[0015] KIDACHI aloe (aloe group) (department of ****)

[Distribution] It is the perennial herbaceous plant by which it comes across the sea by native [of the CAPE of South Africa, NAKURU, and the Transvaal district] before Kansei era every year (1789-1801) of the Edo period, and current is grown by the object for admiration, and medical use in various places.

a [gestalt] -- the whole -- pale green -- a stem -- a cylindrical shape, **** 2.5Cm, and a leaf -- alternate - - carrying out -- the shape of a sword, or a line -- leather needle type -- a semicircle -- pillar-shaped.

**** is in ***** and a leaf margin by fleshy, and a front face is dented. A base is spread and ****(ed). A flower season is in February to March. A vermilion red flower is pickled in ***** near the term of a stem tufted.

[Medicinal part] Leaf (a ***** aloe, ROE>). At the time of the need, a green leaf is collected and it is used as it is after washing in cold water.

[Component] Barbaloin and an aloe ARUBONA side are divided into the leaf.

[Drug effect and pharmacology] Barbaloin is little, has a bitterness stomachic operation, is extensive, stimulates the large intestine, accelerates a peristalsis, by bile, changes to the aloe emodin and starts the bottom of strong **. The aloe emodin promotes direct child official contraction, and has a lifting abortion operation in menorrhagia, a premature delivery, and a miscarriage. When the water infusa of an aloe was used for the rabbit of the artificial chemosis, the recovery period was shortened and the conglutination promotion operation was seen to the blemish of the mouse started artificially. Moreover, the anticancer operation, the antifungal action, etc. were clarified by research in recent years at the alcoholic extract. **** is little, is used for dyspepsia, chronic gastric catarrh, etc. as bitter stomachic, and is used for habitual constipation as a large intestine laxative.

[Usage] A crude drug is grated for a laxative and raw juice is taken one cup of cup. This moiety is taken to stomachic, it turns [burn] to the hide of a leaf, and the part of the shape of inner jelly is stuck on the affected part.

[0016] OTOGIRISO (St. John's wort group) (** -- only -- the department of that being right)

[Distribution] Perennial herbaceous plant which is distributed over the Kyushu **** Korean Peninsula and Sakhalin from Hokkaido, and grows in a mountain and the hill ground ordinarily. There is much change and a classification with a similar kind is difficult.

[Gestalt] 20 to 60 cm height of grass. a stem is cylindrical -- green -- single ** -- rarely, raw is carried out so and two to three carry out a small number of branching. A leaf is opposite and amplexicaular of entire fringe and the base is halfway carried out by extensive **** type or oblong-ovate ** trochocephaly. A flower season is in July to August. Many yellow flowers are attached to the panicle of a terminal.

[Medicinal part] Entire plant (a St. John's wort, show forsythia fruit). the flower has stuck in June to August -- the entire plant -- mowing -- Japanese -- it carries out for **(ing).

[Component] KUNNIN besides the hypericin of anthraquinone and the quercetin of flavones etc. is included.

[Drug effect and pharmacology] There are hemostasis, painkilling, converge, and a diuretic effect, and it

uses for the cough of hemostasis, irregular menstruation, tonsillitis, and cold etc., and also applies externally to a bruise etc. In the Tokushima district, the entire plant is dipped in alcohol and it uses as a prophylactic of palsy, rheumatism, and neuralgia.

[Usage] The entire plant dried with hemostasis and a swelling is boiled down, and it applies to the affected part. It is good also considering the tea as gargles, such as tonsillitis. 300ml water is added to painkilling and the two to 4 g amount of menstruation one entire plants dried unseasonable, and it brews and takes until it becomes a moiety. Although it will be said that it is effective if raw leaf sap is attached to an incised wound and a bruise, dermatitis may be started, and cautions are need.

[Others] The hypericin is black purple coloring matter and absorbs ultraviolet rays strongly. Although the cow which ate the St. John's wort, a horse, a sheep, etc. may start and depilate strong dermatitis in daylight, this is also depended on an operation of the hypericin.

[0017] Houltuynia (Houltuynia group) (department of **** which moves aside)

[Distribution] Perennial herbaceous plant which is distributed over Honshu, Shikoku, Kyushu, Okinawa and Taiwan, China, Himalaya, and Java, and is seen [yard / Yamano,] ordinarily.

[Gestalt] 15 to 35 cm height of grass. A stem is branched by erection. Alternate is carried out sparsely and, for the point, a leaf is kurtosis and dark green short at an extensive cardioid. A flower season is in June to July. The flower is protected by the petaloid total white bract scale of four sheets about the small short spike in light yellow. Fruits are capsules and have an odor peculiar to the entire plant.

[Medicinal part] Terrestrial part of a flower season (a houltuynia herb, *****JUUYAGU>). the entire plant of a terrestrial part -- mowing -- washing in cold water -- carrying out -- Japanese -- *(ing) -- carrying out -- desiccation *****.

[Component] A German samurai's odor component is the decanoyl acetaldehyde of essential oil etc., and AFUZERIN of a decanoyl acetaldehyde, lauryl aldehyde, and flavonoid, GUERU cetin, iso GUERU citrin, potassium salt, etc. are contained in others.

[Drug effect and pharmacology] The water immersion liquid of DOGUDAMI is useful to hypertension prevention, and there is a diuretic effect in decoction. It is supposed that it is effective in white ****, Staphylococcus, etc., and there are antimicrobial activity and sterilization force. It is used as alleviation of fever, detoxication, and an antiphlogistic.

[Usage] The ten to 15 g daily-dose entire plant is boiled down with 800 to 900 ml water, and it takes in 3 steps. Since there is an operation which makes a capillary strong, stools are improved or there is effectiveness in prevention of arteriosclerosis, the acute nephritis, etc. In using in the raw state, grinding **** of the forage is carried out and it attaches to the affected part. It can do and *****, an empyema, hemorrhoids, etc. can be applied widely. An underground stem can be used for winter.

[Others] It plants in a place which became wet about a little white rhizome. Since there is fecundity, it is enough just to sometimes give a liquefied fertilizer.

[0018] Mulberry (mulberry group) (department of a hoe)

[Distribution] Fallen-leaves tree which is distributed over Kyushu and south 1000 island, Sakhalin, the Korean Peninsula, and China from Hokkaido, and grows in a mountain, or is grown.

[Gestalt] A trunk is gnarled and is the tree height of 10m. A leaf has irregular serration in an extensive ovoid and an edge. The flower of light yellow will be opened to the spike of an owner shank around April. dioecism -- rare -- this stock. **** behind a flower ripens in black purple. **** fleshy in ** is so wrapped in **.

[Medicinal part] A cortex (***** <sow HAGUHI>), a leaf (mulberry leaf <a sow yaw>), a branch (mulberry branch <SOUSHI>), fruits (Morus alba <saw gin>). a root -- washing in cold water -- carrying out -- raw inside -- a hide -- skinning -- KORUGU -- deleting -- going away -- Japanese -- it carries out for *(ing). A leaf loads what a summer is thick and was substantial, and dries it in the shade one sheet at a time. a branch -- autumn -- 1 winter -- a branch -- cutting -- taking -- Japanese -- it carries out for *(ing). Fruits are attached to white distilled liquor in the raw state, and let them be medicinal drinks.

[Component] Molsin of prenyl flavonoid, GUWANON A-T, MURUBERO furan A-K of a benzofuran derivative, MURUBERO side A-C of a glycoside, etc. are contained in the cortex.

[Drug effect and pharmacology] The decoction of a cortex has a transient hyperglycemic action and an operation under *****, and also shows a sadative action. Mulberry bark is mainly applied to a Chinese medicine formula as resolution, antiussive, and diuretic. [Usage] A cortex adds 400ml water to the five to 10 g daily dose, brews it by 300m, and is taken in 3 steps. When a leaf adds 500ml water to 20g of daily dose, and boils it down to a moiety, **** is taken and tea drinks comparatively, it is good for blood supplement and sthenia. If a little branch is parched and 10g is drunk once as tea, it will serve as prevention of palsy and arteriosclerosis. The medicinal drinks of fruits are good for hypotension and insomnia, and it is made to dry and they can also do the object for **.

[0019] a balsam (Impatiens textori group) (it hangs and is a department of that being right in **)

[Distribution] Annual herb widely grown in a garden, a flower bed, etc. by India, the Malay Peninsula, and the China Minabe native in the world by the end of today.

[Gestalt] Height of grass of about 60cm. A stem stands straight and is [fleshy] thick at weak and a cylindrical shape. A lower leaf is carried out in opposition pairs, the whorl of the upper leaf is carried out in alternate, and it is an owner shank and leather needle type, and is *****. Six to 15 cm die length, *****. **** is in a petiole. A flower season is in July to September. It is attached a little to ***** downward in two to three pieces, and width. A petal 5 will cleave, if bilateral symmetry, a stamen 5, and a capsule ripen in an ellipse form, and it flies a seed.

[Medicinal part] The entire plant (*****HOUSEN>), seed (Impatiens seed <HOUSENSHI>). or [extracting the entire plant and using it in summer 1 autumn as it is] -- Japanese -- it carries out for ** (ing). fruits -- just before maturation -- extracting -- Japanese -- it carries out for ** (ing), and only a seed is collected and used after drying.

[Component] They are kaempferol, GUERU cetin, etc. to an anthocyanin, cyanidin, and forage in naphthoquinones and a flower. A seed mainly contains 17.9% of fatty oil including a PARINA lysine as a fatty acid.

[Drug effect] It is known that there are detoxication and an antibacterial action in kaempferol, a quercetin, etc., it uses for the therapy of cold and the ichthyotoxism, and also effectiveness is in a swelling or a trauma. [Usage] It brews and a desiccation leaf is taken under it until it becomes cold in a moiety with a three to 6 g amount, and 200ml water once. Although it brews and takes until it adds 200ml water for a seed to a 1.5 to 3 g amount once at the ichthyotoxism and becomes a moiety, it is said that it is toxic and cautions are required. Moreover, the juice of a raw leaf is extracted and applied externally with a swelling.

[-- there is description that in addition to this the girl dyed the pawl] "the Yamato *****" (1708) red using the leaf of this flower and wood sorrel, and there is an old name called TSUMAKURENAI from this.

[0020] Acorus gramineus (Japanese iris group) (department of a taro)

[Distribution] Perennial herbaceous plant which is distributed over the Temperate Zone of Honshu, Shikoku, Kyushu **** China, and the Himalaya district, and warm temperate zone, and mainly grows in along a mountain stream.

[Gestalt] It carries out raw [of the leaf which is glossy for linearity] so the shape of a hakama of two trains from the edge of the underground stem which side-** for a long time. A flower season is in April - May. A foliaceous flower stalk stands out of the leaf which carries out raw so, and a yellow spadix is attached to an apex.

[Medicinal part] Rhizome (Acorus gramineus Soland a cattail <SEKISHOUBU>, Shobu). May and a rhizome -- extracting -- washing in cold water -- as it is -- Japanese -- it carries out for ** (ing).

[Component] Otherwise, alpha-asarone, caryophyllene, alpha-humulene, SEKISHON, etc. are known as an essential-oil component, including beta-asarone so much.

[Drug effect and pharmacology] The operation a sadative action, promotion of digestive-juices secretion, gastroenteric abnormal fermentation control, smooth muscular relaxation, antifungal is known. It considers as painkilling, killing, stomachic, a blood-activating drug, etc., and uses for stomachache, abdominal pain, epilepsy, rheumatism, amnesia, ****, etc.

[Usage] Five to 10 g stone Shobu is brewed with 500 to 600 ml water, and decoction is divided and

taken in the morning in the evening. Among the people, powder is parched to the pain of a lug etc., and with cloth, a blacking wash and before cooling down, hit against the affected part, and the **** method (on-AMPOU) is carried out, or it uses for the waist cold of abdominal pain and ** people etc. as a charge of a bath.

[Others] There is water Shobu other than stone Shobu among Shobu of a chief remedy, and this thing is the rhizome of Japanese iris *A. calamus* L. Since a leaf and the growing figure are beautiful, various garden varieties are made. MASAMUNEZEKI show, the small Alice KAEAZEKI show, etc. to which a leaf has the pinstripes of green white are typical.

[0021] Loquat (loquat group) (Rosaceae)

[Distribution] It is called China Nakaminami section native. The evergreen tree which grows in the warm district of the limestone zone west of **** in Japan, and is grown widely.

[Gestalt] Tree height of about 10m. An oblong and a mesophyll are thick, a leaf is hard owner shank alternate, it is glossy with a surface hairless green color, and a rear face has a fluff with a light green color. A flower season is in November to January. Attach the panicle which has a fluff in the point of a stem, the flower of a yellowish-white color is made to grow thick, and aroma is emitted.

[Medicinal part] A leaf (*eribotryae folium* <a loquat leaf>), a seed (*****), fruits. It extracts, when required. Moreover, *eribotryae folium* takes and removes the back hair of the leaf which is the desiccation article and was extracted in September top phrases, and is what was carried out for **(ing) Japanese.

[Component] Including essential oil in a leaf, the main components are nerolidol, a farnesol, alpha-, beta-pinene, camphene, a myrcene, etc. Ursolic acid, oleanolic acid, the Nguyen acid, a malic acid, a tartaric acid, the amygdalin of cyanogenic glycoside, etc. are included in others. An amygdalin is contained also in a seed.

[Drug effect and pharmacology] The flume crack to which the extract of a leaf promotes growth of a yellow BUDOBUCoccus, and a saponin have an expectation operation. It is used for escape from the heat as an *eribotryae-folium* molten bath for many years. ***** is applied by stomachic, resolution, an anti-diarrheal, urination, and antiussive in a Chinese medicine formula.

[Usage] The affected part is washed with the liquid which tears three **** to eczema and a heat rash among the people, and it began to boil by 500ml of water. 30 **** are minced for a bruise and sprain, moisture is taken, and it soaks with a white distilled liquor. It is good to carry out the packing sheet of the exceeded liquid with absorbent cotton etc. after two to three weeks, and to warm by **** etc. Water of about 500 to 600 ml is added to 20g of desiccation ****, and it brews and exceeds in an anti-diarrheal to a moiety, and takes between ter-die foods. Moreover, it is effective also as a charge of a bath.

[0022]

[The mode of implementation of invention] Next, the example of this invention is explained in full detail below.

[Example 1] The Japan *angericae radix* of the department of **** is extracted in anthesis, and the entire plant and a petal are judged by a cutter etc. On the other hand, 100l. of solutions which mixed and agitated 1kg of sugar to 2l. of white distilled liquors of 35 alcoholicity is prepared. Subsequently, the Japan *angericae radix* entire plant and the petal which were judged are immersed in said solution. Let the compounding ratio be 50 weight sections to the solution 100 weight section. For about 5 thru/or seven years, it is immersed in ordinary temperature, the white distilled liquor containing the extract from the Japan *angericae radix* entire plant and a petal is filtered by the dry mesh technique, and the alcoholic extract of the Japan *angericae radix* is obtained.

[0023] [Example 2] MIYAMATOUKI of the department of **** is extracted in anthesis, and the entire plant and a petal are judged by a cutter etc. On the other hand, 100l. of solutions which mixed and agitated 1kg of sugar to 2l. of white distilled liquors of 40 alcoholicity is prepared. Subsequently, the MIYAMATOUKI entire plant and the petal which were judged are immersed in said solution. Let the compounding ratio be 70 weight sections to the solution 100 weight section. For about 5 thru/or seven years, it is immersed in ordinary temperature, the white distilled liquor containing the extract from the

MIYAMATOUKI entire plant and a petal is filtered by the dry mesh technique, and the alcoholic extract of MIYAMATOUKI is obtained.

[0024] [Example 3] It extracts in the anthesis of *Angelica keiskei* of the department of ****, and the entire plant is ****(ed) for five days and judged. On the other hand, 100l. of solutions which mixed and agitated 2kg of sugar in 2l. of ethyl alcohol of 40 alcoholicity is prepared. Subsequently, the judged *Angelica keiskei* 50 weight section is immersed in ethyl alcohol content sugar liquid of 40 degrees in ordinary temperature for about five years in 40 degrees C, and residue is separated.

[0025] Next, an example is given and explained about the experimental result of this invention. Various kinds of illnesses from which active oxygen serves as a original enclosure, for example, illness by the blood-flow failure, (it myocardium-****) an adult disease and internal medicine diseases (cancer --), such as cerebral apoplexy, hypertension, menstrual pain, stiffness in shoulder, neuralgia, low back pain, and a hangover In order to examine the effectiveness excellent in the therapy of cosmetics, dermatoses, etc. (silverfish, a buckwheat, ** and surface deterioration, oversensitivity to cold, constipation, a wrinkling, atopic dermatitis, etc.), such as a nephritis, hepatitis, and diabetes mellitus, amelioration, etc., I had the patient who wishes to take take, statistics was taken [totals / 20 / existence / of age, sex, the count of recipe, and the illness] about the following items at random, and the following results were obtained.

1. Myocardial Infarction Those who answered that condition became good 18 persons Those who answered that appetite became good 16 persons Those who answered that the tune of the heart became good 15 persons Those who answered that one items or more became good among the above-mentioned items 20-person 2. cerebral apoplexy Those who answered that condition became good 17 persons Those who answered that appetite became good 15 persons Those who answered that the stiffness of the shoulders became good Five persons Those who answered that the cold of a guide peg became good Trinominal Those who answered that one items or more became good among the above-mentioned items 13-person 3. hypertension Those who answered that condition became good 16 persons Those who answered that appetite became good 12 persons those who answered that the stiffness of the shoulders became good Ten persons Those who answered that the cold of a guide peg became good 13 persons the above-mentioned item -- inner -- those who answered that one items or more became good 17 persons [0026]

[Effect of the Invention] This invention as mentioned above The Japan *angelicae radix*, MIYAMATOUKI, *Angelica keiskei*, a KIDACHI aloe, a St. John's wort, DOKUTAMI, a mulberry, a balsam, *Acorus gramineus*, and a loquat -- since, since the component which has a SOD (superoxide DISU mutase) operation by the approach of extracting the various functions nature matter was extracted Various kinds of illnesses from which active oxygen serves as a original enclosure, for example, illness <myocardium **** by the blood-flow failure, Adult diseases, such as cerebral apoplexy, hypertension, menstrual pain, stiffness in shoulder, neuralgia, low back pain, and a hangover, It has drug effect, such as a therapy of internal medicine diseases (cancer, a nephritis, hepatitis, *****, etc.), cosmetics, dermatoses (permeating a freckle, surface deterioration, oversensitivity to cold, constipation, a wrinkling, atopic dermatitis, etc.), etc., and amelioration, and can use broadly.

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(71)Applicant : NAGAMITSU KATSUJI

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(72)Inventor : NAGAMITSU KATSUJI

(54) HEALTH FOOD

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a safe health food containing multi-functional substances (SOD).

SOLUTION: This health food is obtained by extracting one or more kinds of plants selected from between two kinds of *Ligusticum acutilobum* and *Angelica keiskei* belonging to the family Umbelliferae, *Aloe arborescens* Mill. var. *nat* belonging to the family Liliaceae, *Hypericum erectum* belonging to the family Hypericaceae, *Houttuynia cordata* belonging to the family Saururaceae, *Morus alba* belonging to the family Moraceae, *Impatiens balsamina* belonging to the family Balsaminaceae, *Acorus gramineus* belonging to the family Araceae, and *Eriobotrya japonica* belonging to the family Rosaceae with an alcohol, adding sugar to the extract and subsequently separating the supernatant from the generated precipitates.

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(71) 出願人 597066326

長光 勝治

東京都八王子市横川町564

(72) 発明者 長光 勝治

東京都八王子市横川町564

(74) 代理人 弁理士 草野 浩一

(54) 【発明の名称】 健康食品

(57) 【要約】

【課題】 安全で且つ多機能性物質 (SOD) を含有する健康食品を提供することを目的とする。

【解決手段】 せり科のニホントウキ、ミヤマトウキ、アシタバ、ゆり科のキダチアロエ、おとぎりそう科のオトギリソウ、どくだみ科のドクダミ、くわ科クワ、つりふねそう科のハウセンカ、さといも科のセキショウ、ばら科のビワの1種類または2種類以上をアルコールで抽出した後、糖分を加え生成した沈殿物と上清とに分離することを特徴とする多機能性物質 (SOD) を含有する健康食品を構成したものである。

【特許請求の範囲】

【請求項1】 せり科のニホントウキ、ミヤマトウキ、アシタバ、ゆり科のキダチアロエ、おとぎりそう科のオトギリソウ、どくだみ科のドクダミ、くわ科クワ、つりふねそう科のホウセンカ、さといも科のセキショウ、ばら科のビワの1種類または2種類以上をアルコールで抽出した後、糖分を加え生成した沈殿物と上清とに分離することを特徴とする多機能性物質(SOD)を含有する健康食品。

【請求項2】 多機能性物質が該沈殿物と上清とに分離、回収してなることを特徴とする、抗炎症作用、抗酸化作用、抗真菌作用、血圧調整作用、鎮痛作用、浄血作用、利尿作用、婦人病の調整作用、解毒作用及び／又は抗癌作用を有する多機能性多糖体である請求項1に記載の健康食品。

【請求項3】 多機能性物質が該沈殿物进行处理して、ペースト状物、希釈物、又は乾燥物とすることを特徴とする請求項2に記載の健康食品。

【請求項4】 多機能性物質が該上清进行处理してナフトキノン類、フラボン類を含有することを特徴とする、解毒作用、抗菌作用、高血圧予防作用、利尿作用、血糖上昇作用、止血作用、鎮痛作用、血圧調整作用、婦人病調整作用、扁桃炎、風邪の咳き、中風、リウマチの予防作用、抗炎症作用及び抗酸化作用を有することを特徴とする請求項1～請求項3のいずれかに記載の健康食品。

【請求項5】 アルコールとしてメタノール、エタノール、及びプロパノールを使用することを特徴とする、請求項1～請求項4のいずれかに記載の健康食品。

【請求項6】 アルコール濃度が30%～60%になるように添加することを特徴とする請求項1～請求項5のいずれかに記載の健康食品。

【発明の詳細な説明】

【0001】

【発明の属する技術分野】本発明は、ニホントウキ、ミヤマトウキ、アシタバ、キダチアロエ、オトギリソウ、ドクダミ、クワ、ホウセンカ、セキショウ、ビワ、から多機能性物質を抽出する方法でSOD(スーパーオキシドディスムターゼ)作用を有する健康・美容増進剤、血圧抑制剤及び便秘改良剤として適切な健康食品または健康飲料(以下「健康食品」と略称する)に関し、特に、活性酸素が原因となる各種の病氣、例えば、血流障害による病氣(心筋硬塞、脳卒中、高血圧、生理痛、肩こり、神経痛、腰痛、二日酔い等)、成人病、内科疾患(癌、腎炎、肝炎、糖尿病等)、美容、皮膚病(しみ、そばかす、肌荒れ、冷え性、便秘、しわ、アトピー性皮膚炎等)等の治療、改良等に広く利用される健康食品に関する。

【0002】

【従来の技術】一般に酸素は、生命体にとって必須のものであるが、時には生体に害を及ぼす事があり、また代

謝により生成されるスーパーオキシドと呼ばれる活性酸素は、鉄や銅などの金属触媒により還元されて過酸化水素となり、さらに活性酸素中で最も反応性が高く、生体に害を及ぼすヒドロキシジェカルとなるが、この分子はDNAを切断し、また脂質を酸化し、老化促進因子とされる過酸化脂質を生成するだけでなく、通常生体内でSODと呼ばれる酸素により消去されるものの、ストレス、高齢化などによってこのSODが減少される結果、生体内でバランスが崩れ、活性酸素によって過酸化脂質が増加して、心筋梗塞、動脈硬化、糖尿病、癌、脳卒中、白内障、肩こり、冷え性、しみ、そばかす、しわ等が生じる原因となる不都合があった。

【0003】このような不都合を解消するものとして、化学合成品のBHA(ブチルヒドロキシアニソール)、BHT(ブチルヒドロキシトルエン)等の抗酸化剤がある。また、活性酸素物質として生体内の酵素であるスーパーオキシドディスムターゼ(SOD)が開発されている。

【0004】

【発明が解決しようとする課題】安全で且つSOD作用(SOD作用とは、活性酸素濃度を減少させる作用のみならず、これに起因して生じると考えられる種々の病氣の予防、改善の作用をも含む。)のある食品があれば、人の健康及び美容にとって極めて大きい。特に、近年のようにストレスが多く且つ多くの病氣が発生している状況においては、特に、その必要性が大きい。

【0005】したがって、本発明は、安全で且つ多機能性物質(SOD)を含有する健康食品を提供することを目的とする。

【0006】

【課題を解決するための手段】以上の観点より、本発明者は、このSOD活性を有する健康・美容増進等として、安全な発酵物を利用したものは無い等について、鋭意、種々検討したところ、前記原料を用いてアルコール抽出させ、過したものがその目的を達成できることを発見して、本発明を完成するに至ったものである。

【0007】即ち、本発明においては、ニホントウキ、ミヤマトウキ、アシタバ、キダチアロエ、オトギリソウ、ドクダミ、クワ、ホウセンカ、セキショウ、ビワ、から多機能性物質を抽出する方法でSOD(スーパーオキシドディスムターゼ)作用を有する健康・美容増進剤、血圧抑制剤及び便秘改良剤としての効用を有する成分を抽出し、特に、活性酸素が原因となる各種の病氣、例えば、血流障害による病氣(心筋硬塞、脳卒中、高血圧、生理痛、肩こり、神経痛、腰痛、二日酔い等)、成人病、内科疾患(癌、腎炎、肝炎、糖尿病等)、美容、皮膚病(しみ、そばかす、肌荒れ、冷え性、便秘、しわ、アトピー性皮膚炎等)等の治療、改良等に広く利用される。

【0008】特に、本発明のSOD作用を有する健康・

美容増進剤は、せり科のニホントウキ、ミヤマトウキ、アシタバ、ゆり科のキダチアロエ、おとぎりそう科のオトギリソウ、どくだみ科のドクダミ、くわ科のクワ、つりふねそう科のハウセンカ、さといも科のセキショウ、ばら科のビワの1種類または2種類以上をアルコールで抽出した後、糖分を加え生成した沈殿物と上清とに分離することにより多機能性物質(SOD)を抽出し、これを含む健康食品、健康飲料、即ち健康食品としたものである。

【0009】せり科のニホントウキ、ミヤマトウキ、アシタバ、ゆり科のキダチアロエ、おとぎりそう科のオトギリソウ、どくだみ科のドクダミ、くわ科のクワ、つりふねそう科のハウセンカ、さといも科のセキショウ、ばら科のビワの1種類または2種類からメタノール、エタノール、酢酸エチル等(特にメタノール、エタノール)を溶媒として抽出したものであり、抽出成分の濃度は、30〜50重量%程度とすることができる。

【0010】また、このようにして抽出した成分は、健康、美容増進剤のほか、便秘改良剤に利用することができる。抽出成分中に含まれる「フラボノイド」は、広く植物界に分布しており、二つのフェニル基が、ピラン環あるいはそれに近い構造の3個の炭素原子をはさんで結合している、いわゆるC6-C3-C6炭素骨格からなる化合物群である。そして、このフラボノイドの配合割合は、発酵液100重量部(例えばエキス濃度が40〜50重量%の場合)に対して0.1〜7重量部程度とすることができる。これが0.1重量部未満では、その効果が十分に期待できないし、7重量部を越えると、味覚的に飲用することが困難となるためである。

【0011】上記抽出成分において、例えば、カリウム、ナトリウム、アルギニン、オルニチン、リジン、ヒスチジン、グルタミン、モノエタノールアミン等については、これを塩基とすることができる。また、フィトン酸が酸性を示すことから、通常、PHが6〜8程度のその塩基を用いる。この塩基の水溶性の有無は問わないが、健康、美容増進剤等を水溶液として用いることが多いので、水溶性のものが好ましいことが多いので、水溶性のものが好ましい。また、その塩類は、上記発酵液に多く含まれており、リン濃度より換算すると、この蒸発残分100重量部に対してフィチン酸相当物が6〜7重量部含まれている。従って、フィチン酸等に所定量の抽出エキスを含有しても上記と同等の効果が確実に得られるものと考えらる。

【0012】本発明において上記成分を抽出するために用いる植物について述べると、

ニホントウキ(通称トウキ)(シシウド属)(せり科)
〔分布〕薬用として人家に植栽される芳香性の多年草、
〔形態〕草丈60〜90cm。根は肥厚する。茎は直立分枝し、葉柄は尖頭、鋭き歯縁、花期は8〜9月。枝先の複散形花序に白色の小さな花を多数つける。〔薬用部

分〕根(当帰(トウキ))根を11月頃堀りあげ、水洗い後、日干しにするか、または半乾燥のときに湯揉みして日干しにする。

〔成分〕根には精油のリグスチライド、サブロール、n-ブチリデンフタライド、n-ブチルフタライド、プロクマリン類のベルガアテン、ボリアセツレン類のファルカリンジオール、フェルカリノール、β-シトステロールのほか、ニコチン酸、ビタミンB12、葉酸などのビタミン類を含む。

10 〔薬効と薬理〕当帰の精油は抹消血管拡張、解熱作用を示し、水エキスは血管透過性を抑制し、眼圧、血圧を下げる作用がある。沈痛、鎮静、浄血、強壮薬として貧血症、腹痛、月経不順、生理痛などに用いられるほか、葉を浴湯料に用いてもよい。

〔使用法〕生理痛などには乾燥根1日量5〜10gに水500mlを加え煎じて3回に分けて暖めて服用する。漢方では婦人病薬の主役として多数の処方に配剤されている。その他、中国では近縁のカラトウキ *A. sinense* (Oliv.) Diels が四川、甘肅、雲南省などで栽培され、日本にも輸入される。

【0013】ミヤマトウキ(シシウド属)(せり科)

〔分布〕本州中部以北から北海道に分布、山地の岩上に生える多年草。

〔形態〕根はゴボウ状で太く、茎は高さ20〜50cm全草に強い香りがある。葉は3出複葉でさらに1〜2回3裂する。花期は7〜8月。茎の頃に複散形花序をつくり多数の白色の小さな花をつける。

〔薬用部分〕根(半帰(トウキ))根をそのまましくは湯通しして乾燥したもの。

30 〔成分〕ブチリデンフタライド、ブチルフタライド、リグスチライドなどのフタライド類を主成分とする精油およびベルガアテン、ショ糖などを含有している。

〔薬効〕古来、有害な漢方の生薬で、浄血、鎮静、強壮薬として用いられ、特に婦人病の諸症に賞用される。民間では浴湯料、しもやけ、月経不順などに用いられる。

〔使用法〕婦人病、その他には根5〜10gに水500mlを加え、温めて1日3回に分けて服用する。葉は浴湯料、しもやけには葉の煎液で洗う。腹痛、月経不順には根を酢に浸してから炒り、エンゴサク、ベニバナを同量加えて粉末にし、酒で服用する。その他、当帰は当帰芍薬散をはじめ多くの漢方処方に配合される。〔その他〕中国では当帰の基原をカラトウキ *A. sinensis* Diels とし四川、甘肅、雲南省に産するが、日本には産しない。また中国産当帰は唐当帰と呼ばれるが、日本には輸入されていない。

【0014】アシタバ(シシウド属)(せり科)

〔分布〕本州関東地方、伊豆半島、伊豆七島、紀伊半島の温暖な海岸地方に生える強壮な多年草。

〔形態〕草丈80〜120cm。根茎は太く短い。根は長く肥厚する。茎は直立し、太く上部で分枝する。葉は

2回3出羽状複葉、小葉は2-3深裂し、やや厚く軟質、裂片は楕円形か卵形で長さ5-10cm。花期は7-9月。茎の頃の複散形花序に淡黄白色花が多数つく。
〔薬用部分〕葉(絨草<カンソウ>)。春-夏に葉を採集し、軽く水洗いして水を切り、手で細かくちぎって2-3日間日干しにした後、陰干しにしてよく乾燥させる。

〔成分〕葉にフラボノイドのルテオリン-7-グルコシド、イソグエルセチン、根にアングリシン、ベルガアテン、キサントトキシン、アングリカ酸、アソラレン、イソアソラレン、コロンビアナジンなどを含む。

〔薬効と薬理〕茎、葉などを切ると出る黄色い汁にイソグエルシトリンが含まれ、この成分に利尿、緩下、毛細血管強化作用があり、緩下、利尿、高血圧症予防薬として用いられる。

〔使用法〕高血圧の予防に、乾燥葉1日量20-30gに熱湯を注ぐか、土びんで煎じてお茶がわりに飲むとよい。また生の葉をしばって青汁を作って飲んでもよい。この場合、1日100mlを限度にする。

〔その他〕春先のまだ光沢の消えない若葉をとって食用にする。ゆでて浸し物、和え物にする。特有の香りがあり、やや苦味があるが、軽く調理するほうがよい。繁殖は実生、株分けによる。性質が強健なため特別な注意も必要なく、栽培はきわめて容易。

【0015】キダチアロエ(アロエ属)(ゆり科)

〔分布〕南アフリカのケープ、ナクール、トランスバル地方の原産で、江戸時代の寛政年間(1789-1801)以前に渡来し、現在は観賞用、薬用に各地で栽培される多年草。

〔形態〕全体に蒼白緑色で、茎は円柱形、径約2.5cm、葉は互生し、剣状か線状皮針形で半円柱状。多肉質で漸尖頭、葉縁に鋭刺があり、表面は凹む。基部は広がつて苞基する。花期は2-3月。茎の頂付近の葉えきに朱紅色花を房状につける。

〔薬用部分〕葉(蘆薈<ロカイ、ロエ>)。必要時に生葉を採集し、水洗い後、そのまま使用する。

〔成分〕葉にバルバロイン、アロエアルボナサイドが分離されている。

〔薬効と薬理〕バルバロインは少量で苦味健胃作用があり、大量で大腸を刺激し、ぜん動運動を亢進させ、胆汁によってアロエエモジンに変わって強い瀉下を起こす。アロエエモジンは直接子宮収縮を促進し、月経過多、早産、流産を起こし墮胎作用がある。アロエの水浸液を人工結膜水腫のウサギに使用したところ、治療期間を短縮し、人工的に起こしたマウスの傷に対し癒合促進作用がみられた。またアルコール抽出物に抗癌作用、抗真菌作用などが近年の研究によって明らかにされた。蘆薈は少量で苦味健胃薬として消化不良、慢性胃カタルなどに用いられ、大腸性下剤として常習便秘に用いられる。

〔使用法〕下剤に生葉をすりおろし、生汁を盃1杯服用

する。健胃にはこの半量を服用し、やけどなどには葉の皮をむき、中のゼリー状の部分患部に貼る。

【0016】オトギリソ(オトギリソウ属)(おとぎりそう科)

〔分布〕北海道から九州および朝鮮半島、サハリンに分布し、山地、丘陵地に普通に生える多年草。変化が多く類似種との分類がむずかしい。

〔形態〕草丈20-60cm。茎は円柱状緑色で、単立、まれに2-3本そう生し、少数分枝する。葉は対生し、広皮針形か狭卵形、円頭で全縁、基部はなかば抱基する。花期は7-8月。頂生の円すい花序に多数の黄色花がつく。

〔薬用部分〕全草(弟切草、ショウレンギョウ)。6-8月に花のついたまま全草を刈りとり、日干しにする。

〔成分〕アントラキノン類のヒペリシン、フラボン類のクエルセチンのほか、クニンなどを含む。

〔薬効と薬理〕止血、鎮痛、収れん、利尿作用があり、止血、月経不順、扁桃炎、風邪の咳などに用いるほか、打撲傷などに外用する。徳島県地方では全草を酒に浸し、中風、リウマチ、神経痛の予防薬として用いている。

〔使用法〕止血、腫れ物に乾燥した全草を煎じ、患部に塗布する。煎汁を扁桃炎などのうがい薬としてもよい。鎮痛、月経不順には乾燥した全草1回量2-4gに300mlの水を加え、半量になるまで煎じつめて服用する。切り傷、打撲傷には生の葉汁をつけると効果があるといわれるが、皮膚炎を起こすことがあり、注意が必要。

〔その他〕ヒペリシンは黒紫色素で、紫外線を強く吸収する。オトギリソウを食べたウシ、ウマ、ヒツジなどが日光に当たり、強い皮膚炎を起こして脱毛することがあるが、これもヒペリシンの作用による。

【0017】ドクダミ(ドクダミ属)(どくだみ科)

〔分布〕本州、四国、九州、沖縄および台湾、中国、ヒマラヤ、ジャバに分布し、山野や庭など普通にみられる多年草。

〔形態〕草丈15-35cm。茎は直立で分枝する。葉はまばらに互生し、広心臟形で先は短くとり、暗緑色。花期は6-7月。花は淡黄色で小さく短い花穂につき、4枚の白い花弁状の総苞片に保護されている。果実はさく果で、全草に独特の臭気がある。

〔薬用部分〕花期の地上部(十薬、重薬<ジュウヤグ>)。地上部の全草を刈りとり水洗いをし、日干しにして乾燥させる。

〔成分〕独特の臭気成分は精油のデカノイルアセトアルデヒドなどで、他にデカノイルアセトアルデヒド、ラウリルアルデヒド、フラボノイドのアフゼリン、グエルセチン、イソグエルシトリン、カリウム塩などが含まれる。

〔薬効と薬理〕ドクダミの水浸液は高血圧症予防に役だ

ち、また煎液には利尿作用がある。白球菌やブドウ球菌などにも有効で、抗菌力や制菌力があるとされている。解熱、解毒、消炎薬として用いられる。

〔使用法〕1日量全草10-15gを水800-900mlで煎じ、3回に分けて服用する。毛細血管を丈夫にする作用があるため、便通をよくしたり、動脈硬化の予防、急性腎炎などにも効果がある。生のまま用いる場合には茎葉をすりつぶして患部につける。おできやただれ、蓄膿症、痔など広く応用することができる。冬期には地下茎を利用できる。

〔その他〕白い根茎を少し湿ったような所に植えつける。繁殖力があるので、ときどき液肥を与えるだけで十分である。

【0018】クワ(クワ属)(くわ科)

〔分布〕北海道から九州および南千島、サハリン、朝鮮半島、中国に分布し、山地に生えるか、あるいは栽培されている落葉高木。

〔形態〕幹は節くれだし、樹高10m。葉は広卵形、縁に不整のきざ歯がある。4月頃、有柄の穂状花序に淡黄色の花を開く。雄雄異株まれに同株。花後の果実は黒紫色に熟す。そう果は多肉質の宿存がくに包まれている。

〔薬用部分〕根皮(桑自皮<ソウハグヒ>)、葉(桑葉<ソウヨウ>)、枝(桑枝<ソウシ>)、果実(桑椹<ソウジン>)。根は水洗いをして生のうちに皮をはぎ、コルクを削り去って日干しにする。葉は夏期の厚く充実したものをつとり、1枚ずつ陰干しする。枝は秋一冬に枝条を切りとり日干しにする。果実は生のまま焼酎につけて薬用酒とする。

〔成分〕根皮にはプレニルフラボノイドのモルシン、グワノンA-T、ベンゾフラン誘導体のムルベロフランA-K、配糖体のムルベロサイドA-Cなどが含まれている。

〔薬効と薬理〕根皮の煎剤は一過性の血糖上昇作用、血圧降下作用があり、鎮静作用も示す。桑自皮は消炎、鎮咳、利尿薬として主に漢方処方に応用される。〔使用法〕根皮は1日量5-10gに400mlの水を加え、300mまで煎じ、3回に分けて服用する。葉は1日量20gに500mlの水を加え、半量まで煮つめ、かすをとってお茶がわりに飲むと補血、強壮によい。枝は少し炒ってお茶として1回10gを飲むと中風、動脈硬化の予防となる。果実の薬用酒は低血圧症、不眠症によく、乾燥させて煎用もできる。

【0019】ハウセンカ(ツリフネソウ属)(つりふねそう科)

〔分布〕インド、マレー半島、中国南部原産で、今日では世界で広く庭園、花壇などで栽培される1年草。

〔形態〕草丈約60cm。茎は直立し、多肉質で軟弱、円柱形で太い。下葉は対生、上葉は互生か輪生し、有柄、皮針形で鋭尖頭。長さ6-15cm、鋭き歯縁。葉柄に網脈がある。花期は7-9月。葉えきに2-3

個、横かやや下向きにつく。花弁5は左右対称、雄しべ5、さく果は楕円形で熟すと裂開して種子を飛ばす。

〔薬用部分〕全草(鳳仙<ハウセン>)、種子(鳳仙子<ハウセンシ>)。夏一秋に全草を採取してそのまま使用するか日干しにする。果実は成熟寸前に採取して日干しにし、乾燥した後、種子だけを集めて用いる。

〔成分〕ナフトキノン類、花にアントシアニン、シアニジン、茎葉にケンフェロール、グエルセチンなど。種子は主としてバリナリシンを脂肪酸として含み、脂肪油17.9%を含む。

〔薬効〕ケンフェロール、グエルセチンなどに解毒、抗菌作用のあることが知られており、風邪、魚肉中毒の治療に用いるほか、腫れ物や外傷にも効果がある。〔使用法〕風邪には乾燥葉を1回量3-6g、200mlの水で半量になるまで煎じつめて服用する。魚肉中毒には種子を1回量1.5-3gに200mlの水を加え、半量になるまで煎じて服用するが、毒性があるといわれており、注意を要する。また腫れ物に生の葉の汁を絞って外用する。

〔その他〕「大和本草」(1708)には女兒がこの花とカタバミの葉を使って爪を赤く染めたという記述があり、このことから、ツマクレナイという古名がある。

【0020】セキショウ(ショウブ属)(さといも科)

〔分布〕本州、四国、九州および中国、ヒマラヤ地方の温帯、暖帯に分布し、主に溪流沿いに生える多年草。

〔形態〕長く横走する地下茎の端から、2列の袴状に、線形で光沢のある葉をそう生する。花期は4-5月。そう生する葉中から葉状の花茎が立ち、頂端に黄色の肉穂花序がつく。

〔薬用部分〕根茎(石菖蒲<セキショウブ>)、菖蒲。5月、根茎を採取し、水洗いしてそのまま日干しにする。

〔成分〕精油成分としてβ-アサロンを多量に含み、ほかにα-アサロン、カリオフィレン、α-フムレン、セキションなどが知られている。

〔薬効と薬理〕鎮静作用、消化液分泌促進、胃腸異常発酵抑制、平滑筋弛緩、抗真菌などの作用が知られている。鎮痛、鎮静、健胃、活血薬などとし、胃痛、腹痛、てんかん、リウマチ、健忘、瘍腫などに用いる。

〔使用法〕石菖蒲5-10gを水500-600mlで煎じ、煎液を朝、夕に分けて服用する。民間では、耳の痛みなどに粉を炒って布でくるみ、冷めないうちに患部に当てて温療法(オンアンボウ)したり、腹痛、掃人の腰冷えなどに浴湯料として用いたりする。

〔その他〕主薬の菖蒲には石菖蒲のほかには水菖蒲があり、このものはショウブA. calamus L. の根茎である。葉や生える姿が美しいのでいろいろな園芸品種が作られている。代表的なものには、葉に緑白色の縦縞があるマサムネセキショウ、小形のアリスカエゼキショウなどがある。

【0021】ビワ（ビワ属）（ばら科）

〔分布〕中国中南部原産といわれる。日本では関界以西の石灰岩地帯の暖地に生え、また広く栽培される常緑高木。

〔形態〕樹高約10m。葉は有柄互生で長楕円形、葉肉は厚くかたく、表面無毛緑色で光沢があり、裏面は薄緑色で綿毛をもつ。花期は11-1月。茎の先に綿毛のある円すい花序をつけ黄白色の花を密生させ、芳香を放つ。

〔薬用部分〕葉（枇杷葉くビワヨウ）、種子（枇杷仁）、果実。必要なときに採取。また枇杷葉はその乾燥品で、9月上旬に採取した葉の裏毛をとり除き、日干しにしたもの。

〔成分〕葉には精油を含み、主な成分はネロリドール、ファルネソール、 α -、 β -ビネン、カンフェン、ミルセンなど。他にウルソール酸、オレノール酸、グエン酸、リンゴ酸、酒石酸、青酸配糖体のアミグダリンなどを含む。アミグダリンは種子にも含まれる。

〔薬効と薬理〕葉の抽出液は黄色ブドウ球菌の生長を促進するといわれ、またサポニンには去痰作用がある。古くから枇杷葉湯として暑気払いに用いられている。漢方処方では枇杷葉を健胃、消炎、下痢止め、利尿、鎮咳に應用される。

〔使用法〕民間では湿疹、あせもに葉約3枚をちぎり水500mlで煮出した液で患部を洗う。打ち身、捻挫には葉約30枚を刻み、水気をとってホワイトリカーで漬け込む。2-3週間後、こした液を脱脂綿などで湿布し、壊疽などであたためるとよい。下痢止めには、乾燥品約20gに約500-600mlの水を加え、半量まで煎じ、こして1日3回食間に服用する。また浴湯料としても有効である。

【0022】

〔発明の実施の態様〕次に、本発明の実施例を以下に詳述する。

〔実施例1〕せり科のニホントウキを、開花期に採取し、全草と花弁をカッター等で裁断する。一方、アルコ*

*ール度35度のホワイトリカー2リットルに砂糖1kgを混合し攪拌した溶液100リットルを用意する。次いで、裁断されたニホントウキ全草と花弁を前記溶液に浸漬する。その配合比は、溶液100重量部に対して50重量部とする。約5ないし7年間常温で浸漬し、ニホントウキ全草と花弁からの抽出物を含むホワイトリカーをドライメッシュ法により濾過してニホントウキのアルコール抽出液を得る。

【0023】〔実施例2〕せり科のミヤマトウキを、開花期に採取し、全草と花弁をカッター等で裁断する。一方、アルコール度40度のホワイトリカー2リットルに砂糖1kgを混合し攪拌した溶液100リットルを用意する。次いで、裁断されたミヤマトウキ全草と花弁を前記溶液に浸漬する。その配合比は、溶液100重量部に対して70重量部とする。約5ないし7年間常温で浸漬し、ミヤマトウキ全草と花弁からの抽出物を含むホワイトリカーをドライメッシュ法により濾過してミヤマトウキのアルコール抽出液を得る。

【0024】〔実施例3〕せり科のアシタバの開花期に採取し、全草を5日間陰干しし裁断する。一方、アルコール度40度のエチルアルコール2リットルに砂糖2kgを混合し攪拌した溶液100リットルを用意する。次いで、裁断されたアシタバ50重量部を40度のエチルアルコール含有砂糖液に40℃にて約5年間常温で浸漬され、残渣を分離する。

【0025】次に、本発明の実験結果について例をあげて説明する。活性酸素が原因となる各種の病気、例えば、血流障害による病気（心筋硬塞、脳卒中、高血圧、生理痛、肩こり、神経痛、腰痛、二日酔い等）、成人病・内科疾患（癌、腎炎、肝炎、糖尿病等）、美容・皮膚病（シミ、ソバカス、肌荒れ、冷え性、便秘、しわ、アトピー性皮膚炎等）等の治療、改良等に優れた効果について検討するため、服用を希望する患者に服用してもらい、総数20名について年齢、性別、服用回数、疾病の有無についてアトランダムに以下の項目について統計を取り以下の様な結果を得た。

1. 心筋梗塞

| | |
|------------------------|-----|
| 体調が良くなったと答えた者 | 18名 |
| 食欲が良くなったと答えた者 | 16名 |
| 心臓の調子が良くなったと答えた者 | 15名 |
| 上記の項目の内1項目以上良くなったと答えた者 | 20名 |

2. 脳卒中

| | |
|------------------------|-----|
| 体調が良くなったと答えた者 | 17名 |
| 食欲が良くなったと答えた者 | 15名 |
| 肩凝りが良くなったと答えた者 | 5名 |
| 足の冷えが良くなったと答えた者 | 3名 |
| 上記の項目の内1項目以上良くなったと答えた者 | 13名 |

3. 高血圧

| | |
|---------------|-----|
| 体調が良くなったと答えた者 | 16名 |
| 食欲が良くなったと答えた者 | 12名 |

(7)

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12

肩凝りが良くなったと答えた者 10名

足の冷えが良くなったと答えた者 13名

上記の項目の内1項目以上良くなったと答えた者 17名

【0026】

【発明の効果】本発明は、上記のように、ニホントウ
キ、ミヤマトウキ、アシタバ、キダチアロエ、オトギリ
ソウ、ドクタミ、クワ、ホウセンカ、セキショウ、ビ
ワ、から多機能性物質を抽出する方法でSOD（スーパ
ーオキシドディスムターゼ）作用を有する成分を抽出し
たので、活性酸素が原因となる各種の病気、例えば、血*

* 流障害による病気（心筋硬塞、脳卒中、高血圧、生理
痛、肩こり、神経痛、腰痛、二日酔い等）、成人病、内
科疾患（癌、腎炎、肝炎、粘尿病等）、美容、皮膚病
（しみ、そばかす、肌荒れ、冷え性、便秘、しわ、アト
ピー性皮膚炎等）等の治療、改良等薬効を有し、広範囲
に利用することができる。

フロントページの続き

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